



RF Exposure Report

(Part 0: SAR Characterization Evaluation)

FCC ID : 2AFZZPN8EG
Equipment : Mobile Phone
Brand Name : Xiaomi
Model Name : 2407FPN8EG
Applicant : Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle
Road, Haidian District, Beijing, China, 100085
Standard : FCC 47 CFR Part 2 (2.1093)

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager

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History of this test report

Report No.	Version	Description	Issued Date
FA442005A	01	Initial issue of report	May 28, 2024

1. Introduction

The FCC RF exposure limit is based on time-averaged RF exposure. SAR regulatory specifications are defined over certain measurement duration allowing for time-averaging. The MediaTek TA-SAR (Time Average SAR) algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power for meeting system performance.

This report shows SAR characterization of sub6GHz. The characterization is achieved by determination of Plimit. In the case of sub6GHz, power is measured by antenna connection port power. Plimit is the power level that corresponds to the exposure design target. Design target is defined as SAR_design target for sub6GHz.

The compliance test under static transmission and simultaneous transmission are performed and summarized in Part 1 report. The validation of TAS algorithm under the dynamic transmission scenarios are conducted are reported in Part 2. Terminologies for this report are listed up in the table below.

Pmax	Maximum target power level
SAR_FCC_limit	SAR limit specified by FCC 1.6 W/kg averaged over 1-gram, for head and body exposure, and 4 W/kg averaged over 10-gram, for extremity exposure
SAR_target	The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainty.
Plimit	The time-averaged RF power that corresponds to SAR_target.
SAR characterization	Characterization of SAR value for all sub6GHz technologies

2. SAR Characterization

SAR characterization must be performed to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for TA-SAR feature to control and manage RF exposure for $f < 6$ GHz.

2.1 SAR design target and uncertainty

Accounting for total uncertainty, SAR_design_target should meet the following condition:

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

SAR Design Target						
Band	Antenna	Head ECI1	Hotspot ECI5	Body-worn ECI4	Extremity ECI3	Uncertainty
GSM850	Ant 1	0.72	0.33	0.78	1.84	1.50
GSM850	Ant 0	0.87	0.87	0.87	2.07	1.00
GSM1900	Ant 5	0.78	0.78	0.78	1.84	1.50
GSM1900	Ant 2	0.73	0.20	0.87	2.07	1.00
WCDMA II	Ant 5	0.78	0.63	0.78	1.84	1.50
WCDMA II	Ant 2	0.72	0.26	0.87	2.07	1.00
WCDMA IV	Ant 5	0.78	0.71	0.78	1.84	1.50
WCDMA IV	Ant 2	0.85	0.40	0.87	2.07	1.00
WCDMA V	Ant 1	1.02	0.24	0.78	1.84	1.50
WCDMA V	Ant 0	0.87	0.87	0.87	2.07	1.00
LTE Band 4	Ant 3	0.66	0.21	0.78	1.84	1.50
LTE Band 4_Other PA	Ant 3	0.65	0.21	0.78	1.84	1.50
LTE Band 4	Ant 2	0.74	0.45	0.60	2.21	0.70
LTE Band 4_Other PA	Ant 2	0.69	0.35	0.64	1.84	1.50
LTE Band 4	Ant 5	0.78	0.75	0.78	1.84	1.50
LTE Band 4_Other PA	Ant 5	0.87	0.73	0.87	2.07	1.00
LTE Band 5	Ant 1	0.68	0.34	0.78	1.84	1.50
LTE Band 5_Other PA	Ant 1	0.61	0.33	0.78	1.84	1.50
LTE Band 5_Code 6	Ant 0	0.94	0.30	0.94	2.21	0.70
LTE Band 5_Other PA_Code 6	Ant 0	0.87	0.25	0.87	2.07	1.00
LTE Band 5_Code 1	Ant 0	0.94	0.49	0.94	2.21	0.70
LTE Band 5_Other PA_Code 1	Ant 0	0.87	0.39	0.87	2.07	1.00
LTE Band 5_Code 3	Ant 0	0.94	0.46	0.94	2.21	0.70
LTE Band 5_Other PA_Code 3	Ant 0	0.87	0.38	0.87	2.07	1.00
LTE Band 5_Code 4	Ant 0	0.94	0.37	0.94	2.21	0.70
LTE Band 5_Other PA_Code 4	Ant 0	0.87	0.11	0.87	2.07	1.00
LTE Band 7	Ant 3	0.66	0.17	0.78	1.84	1.50
LTE Band 7	Ant 2	0.80	0.29	0.51	2.21	0.70
LTE Band 7	Ant 5	0.78	0.51	0.78	1.84	1.50
LTE Band 7	Ant 4	0.69	0.26	0.78	1.84	1.50
LTE Band 12(17)_Other PA	Ant 1	0.74	0.46	0.78	1.84	1.50
LTE Band 12(17)_Other PA	Ant 0	0.87	0.87	0.87	2.07	1.00
LTE Band 25	Ant 3	0.59	0.20	0.78	1.84	1.50
LTE Band 25	Ant 2	0.78	0.40	0.44	2.07	1.00
LTE Band 25	Ant 5	0.78	0.71	0.78	1.84	1.50
LTE Band 25	Ant 4	0.71	0.26	0.78	1.84	1.50
LTE Band 26	Ant 1	0.59	0.30	0.78	1.84	1.50
LTE Band 26	Ant 0	0.94	0.94	0.94	2.21	0.70
LTE Band 66	Ant 3	0.62	0.18	0.78	1.84	1.50
LTE Band 66_Other PA	Ant 3	0.65	0.17	0.78	1.84	1.50



LTE Band 66	Ant 2	0.67	0.33	0.87	2.07	1.00
LTE Band 66_Other PA	Ant 2	0.79	0.34	0.78	1.84	1.50
LTE Band 66	Ant 5	0.78	0.50	0.78	1.84	1.50
LTE Band 66_Other PA	Ant 5	0.87	0.50	0.87	2.07	1.00
LTE Band 66	Ant 4	0.78	0.13	0.78	1.84	1.50
LTE Band 66_Other PA	Ant 4	0.77	0.09	0.78	1.84	1.50
LTE Band 38	Ant 3	0.77	0.14	0.78	1.84	1.50
LTE Band 38	Ant 2	0.67	0.22	0.29	2.21	0.70
LTE Band 38	Ant 5	0.78	0.50	0.78	1.84	1.50
LTE Band 38	Ant 4	0.74	0.32	0.78	1.84	1.50
LTE Band 41	Ant 3	0.77	0.22	0.78	1.84	1.50
LTE Band 41	Ant 2	0.71	0.21	0.28	2.21	0.70
LTE Band 41	Ant 5	0.78	0.51	0.78	1.84	1.50
LTE Band 41	Ant 4	0.71	0.34	0.78	1.84	1.50
LTE Band 42	Ant 6	0.81	0.16	0.94	2.21	0.70
LTE Band 42	Ant 8	0.78	0.51	0.78	1.84	1.50
LTE Band 42	Ant 7	0.56	0.21	0.16	1.84	1.50
LTE Band 42	Ant 9	0.74	0.18	0.78	1.84	1.50
LTE Band 48	Ant 6	0.59	0.16	0.94	2.21	0.70
LTE Band 48	Ant 8	0.78	0.46	0.78	1.84	1.50
LTE Band 48	Ant 7	0.43	0.18	0.12	1.84	1.50
LTE Band 48	Ant 9	0.78	0.23	0.78	1.84	1.50
FR1 n5	Ant 1	0.60	0.38	0.78	1.84	1.50
FR1 n5_Other PA	Ant 1	0.61	0.35	0.78	1.84	1.50
FR1 n5	Ant 0	0.94	0.43	0.94	2.21	0.70
FR1 n5_Other PA	Ant 0	0.87	0.39	0.87	2.07	1.00
FR1 n26	Ant 1	0.60	0.38	0.78	1.84	1.50
FR1 n26	Ant 0	0.94	0.43	0.94	2.21	0.70
FR1 n12	Ant 1	0.63	0.50	0.78	1.84	1.50
FR1 n12	Ant 0	0.87	0.87	0.87	2.07	1.00
FR1 n25	Ant 3	0.67	0.24	0.78	1.84	1.50
FR1 n25	Ant 2	0.70	0.33	0.87	2.07	1.00
FR1 n25	Ant 5	0.78	0.73	0.78	1.84	1.50
FR1 n25	Ant 4	0.70	0.31	0.78	1.84	1.50
FR1 n66	Ant 3	0.59	0.24	0.78	1.84	1.50
FR1 n66_Other PA	Ant 3	0.62	0.25	0.78	1.84	1.50
FR1 n66	Ant 2	0.56	0.55	0.27	2.07	1.00
FR1 n66_Other PA	Ant 2	0.63	0.36	0.27	2.07	1.00
FR1 n66	Ant 5	0.78	0.66	0.78	1.84	1.50
FR1 n66_Other PA	Ant 5	0.87	0.69	0.87	2.07	1.00
FR1 n66	Ant 4	0.78	0.12	0.78	1.84	1.50
FR1 n66_Other PA	Ant 4	0.78	0.10	0.78	1.84	1.50
FR1 n7	Ant 3	0.56	0.14	0.78	1.84	1.50
FR1 n7	Ant 2	0.80	0.38	0.22	2.21	0.70
FR1 n7	Ant 5	0.78	0.51	0.78	1.84	1.50
FR1 n7	Ant 4	0.73	0.32	0.78	1.84	1.50
FR1 n38	Ant 3	0.57	0.18	0.78	1.84	1.50
FR1 n38	Ant 2	0.85	0.28	0.26	2.21	0.70
FR1 n38	Ant 5	0.78	0.48	0.78	1.84	1.50
FR1 n38	Ant 4	0.77	0.33	0.78	1.84	1.50
FR1 n41_PC3	Ant 3	0.54	0.15	0.78	1.84	1.50
FR1 n41_PC2	Ant 3	0.63	0.16	0.78	1.84	1.50
FR1 n41_PC3	Ant 2	0.63	0.19	0.19	2.07	1.00
FR1 n41_PC2	Ant 2	0.65	0.23	0.18	2.07	1.00
FR1 n41_PC3	Ant 5	0.78	0.43	0.78	1.84	1.50
FR1 n41_PC2	Ant 5	0.78	0.50	0.78	1.84	1.50

FR1 n41_PC3	Ant 4	0.39	0.17	0.78	1.84	1.50
FR1 n41_PC2	Ant 4	0.38	0.20	0.78	1.84	1.50
FR1 n48	Ant 6	0.46	0.12	0.94	2.21	0.70
FR1 n48	Ant 8	0.78	0.45	0.78	1.84	1.50
FR1 n48	Ant 7	0.44	0.19	0.08	1.84	1.50
FR1 n48	Ant 9	0.51	0.24	0.78	1.84	1.50
FR1 n77_PC3	Ant 6	0.69	0.19	0.87	2.07	1.00
FR1 n77_PC2	Ant 6	0.78	0.23	0.87	2.07	1.00
FR1 n77_PC3	Ant 8	0.78	0.40	0.78	1.84	1.50
FR1 n77_PC2	Ant 8	0.78	0.50	0.78	1.84	1.50
FR1 n77_PC3	Ant 7	0.40	0.17	0.09	1.84	1.50
FR1 n77_PC2	Ant 7	0.41	0.20	0.18	1.84	1.50
FR1 n77_PC3	Ant 9	0.36	0.17	0.18	1.84	1.50
FR1 n77_PC2	Ant 9	0.37	0.22	0.20	1.84	1.50
FR1 n78_PC3	Ant 6	0.65	0.18	0.87	2.07	1.00
FR1 n78_PC2	Ant 6	0.63	0.21	0.87	2.07	1.00
FR1 n78_PC3	Ant 8	0.78	0.39	0.78	1.84	1.50
FR1 n78_PC2	Ant 8	0.78	0.45	0.78	1.84	1.50
FR1 n78_PC3	Ant 7	0.53	0.22	0.10	1.84	1.50
FR1 n78_PC2	Ant 7	0.54	0.27	0.12	1.84	1.50
FR1 n78_PC3	Ant 9	0.30	0.21	0.78	1.84	1.50
FR1 n78_PC2	Ant 9	0.30	0.23	0.78	1.84	1.50

Trigger condition

Exposure conditions	Trigger Conditions	ECI
Head	Receiver	1
Hotspot	Hotspot SW	5
Body-worn	Proximity Sensor detected	4
Extremity	Proximity Sensor detected	3

2.2 SAR Characterization – Power Table

*P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + device uncertainty.

**All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).

The max allowed output power is the P_{limit} + device uncertainty, and if P_{limit} is higher than P_{max}, the device output power will be P_{max} instead.

<P_{limit} for supported technologies and bands (P_{limit} corresponding to SAR design target)>

Band	Antenna	Duty Cycle %	P _{limit}				P _{max} *
			Head ECI1	Hotspot ECI5	Body-worn ECI4	Extremity ECI3	
GSM850**	Ant 1	50	19.0	19.0	25.4	23.0	23.0
GSM850**	Ant 0	50	28.9	27.1	30.2	24.0	24.0
GSM1900**	Ant 5	50	30.8	21.2	26.4	19.5	19.5
GSM1900**	Ant 2	50	18.0	18.0	26.9	21.0	21.0
WCDMA II	Ant 5	100	31.6	20.5	27.2	20.5	23.5
WCDMA II	Ant 2	100	17.5	17.5	26.5	24.0	24.0
WCDMA IV	Ant 5	100	30.6	21.7	27.3	22.7	23.7
WCDMA IV	Ant 2	100	17.5	17.5	26.4	24.0	24.0
WCDMA V	Ant 1	100	18.5	18.5	25.8	22.5	23.5
WCDMA V	Ant 0	100	29.6	26.7	29.6	24.0	24.0
LTE Band 4	Ant 3	100	16.2	16.2	26.9	20.2	24.2
LTE Band 4_Other PA	Ant 3	100	16.2	16.2	27.4	20.2	24.2
LTE Band 4	Ant 2	100	18.0	18.0	23.0	23.0	25.0
LTE Band 4_Other PA	Ant 2	100	16.0	16.0	21.0	21.0	23.0
LTE Band 4	Ant 5	100	30.4	22.2	26.9	22.7	24.2
LTE Band 4_Other PA	Ant 5	100	31.6	22.5	27.9	23.0	24.5
LTE Band 5	Ant 1	100	18.7	18.7	29.6	22.2	24.2
LTE Band 5_Other PA	Ant 1	100	18.5	18.5	29.6	22.0	24.0
LTE Band 5_Code 6	Ant 0	100	32.2	24.0	31.4	24.0	25.0
LTE Band 5_Other PA_Code 6	Ant 0	100	33.0	23.5	31.6	23.5	24.5
LTE Band 5_Code 1	Ant 0	100	30.8	24.0	30.0	24.0	25.0
LTE Band 5_Other PA_Code 1	Ant 0	100	28.9	23.5	29.9	23.5	24.5
LTE Band 5_Code 3	Ant 0	100	30.0	24.0	29.6	24.0	25.0
LTE Band 5_Other PA_Code 3	Ant 0	100	30.1	23.5	30.1	23.5	24.5
LTE Band 5_Code 4	Ant 0	100	31.0	24.0	30.0	24.0	25.0
LTE Band 5_Other PA_Code 4	Ant 0	100	30.6	23.5	34.2	23.5	24.5
LTE Band 7	Ant 3	100	15.7	15.7	26.5	19.7	24.2
LTE Band 7	Ant 2	100	16.0	16.0	19.5	19.5	25.0
LTE Band 7	Ant 5	100	29.5	19.2	26.8	19.2	24.2
LTE Band 7	Ant 4	100	16.0	16.0	27.4	19.5	22.5
LTE Band 12(17)_Other PA	Ant 1	100	21.0	21.0	27.8	23.5	23.5
LTE Band 12(17)_Other PA	Ant 0	100	29.8	28.3	29.5	24.0	24.0
LTE Band 25	Ant 3	100	16.5	16.5	28.6	19.5	23.5
LTE Band 25	Ant 2	100	18.5	18.5	22.5	22.5	24.0
LTE Band 25	Ant 5	100	30.3	20.5	27.4	20.5	23.5
LTE Band 25	Ant 4	100	17.0	17.0	28.2	22.0	22.0
LTE Band 26	Ant 1	100	18.7	18.7	26.2	24.2	24.2
LTE Band 26	Ant 0	100	29.3	26.7	29.9	25.0	25.0
LTE Band 66	Ant 3	100	15.5	15.5	27.4	19.5	23.5
LTE Band 66_Other PA	Ant 3	100	16.0	16.0	27.9	20.0	24.0
LTE Band 66	Ant 2	100	16.5	16.5	25.9	24.0	24.0
LTE Band 66_Other PA	Ant 2	100	15.0	15.0	23.9	22.5	22.5
LTE Band 66	Ant 5	100	30.5	21.0	26.9	22.0	23.5
LTE Band 66_Other PA	Ant 5	100	31.1	21.5	27.8	22.5	24.0
LTE Band 66	Ant 4	100	21.5	21.5	32.7	21.5	22.0
LTE Band 66_Other PA	Ant 4	100	22.5	22.5	35.1	22.5	23.0



LTE Band 38**	Ant 3	63.3	16.5	16.5	26.4	20.5	22.2
LTE Band 38**	Ant 2	63.3	15.8	15.8	20.8	20.8	23.0
LTE Band 38**	Ant 5	63.3	30.4	19.5	26.7	19.5	22.2
LTE Band 38**	Ant 4	63.3	16.8	16.8	27.2	20.3	20.5
LTE Band 41**	Ant 3	63.3	16.5	16.5	26.5	20.5	22.2
LTE Band 41**	Ant 2	63.3	15.8	15.8	19.8	19.8	23.0
LTE Band 41**	Ant 5	63.3	30.7	19.5	27.0	19.5	22.2
LTE Band 41**	Ant 4	63.3	16.8	16.8	27.4	20.3	20.5
LTE Band 42**	Ant 6	63.3	14.8	14.8	28.4	17.8	23.0
LTE Band 42**	Ant 8	63.3	24.2	18.8	25.3	18.8	21.0
LTE Band 42**	Ant 7	63.3	13.8	13.8	16.3	16.3	22.0
LTE Band 42**	Ant 9	63.3	19.8	19.8	26.4	20.5	20.5
LTE Band 48**	Ant 6	63.3	14.3	14.3	28.9	17.3	21.0
LTE Band 48**	Ant 8	63.3	24.0	17.8	25.0	17.8	19.0
LTE Band 48**	Ant 7	63.3	12.8	12.8	16.8	16.8	20.0
LTE Band 48**	Ant 9	63.3	20.5	17.3	27.1	17.3	18.5
FR1 n5	Ant 1	100	19.5	19.5	25.8	21.5	24.0
FR1 n5_Other PA	Ant 1	100	19.5	19.5	25.5	21.5	24.0
FR1 n5	Ant 0	100	30.7	24.0	29.9	24.0	25.0
FR1 n5_Other PA	Ant 0	100	30.2	23.5	29.4	23.5	24.5
FR1 n26	Ant 1	100	19.5	19.5	25.8	21.5	24.0
FR1 n26	Ant 0	100	30.7	24.0	29.9	24.0	25.0
FR1 n12	Ant 1	100	21.5	21.5	27.4	23.0	23.0
FR1 n12	Ant 0	100	29.7	28.0	29.7	24.0	24.0
FR1 n25	Ant 3	100	17.5	17.5	28.9	19.5	23.5
FR1 n25	Ant 2	100	18.5	18.5	27.0	24.0	24.0
FR1 n25	Ant 5	100	29.9	21.5	26.9	21.5	23.5
FR1 n25	Ant 4	100	17.5	17.5	27.9	22.0	22.0
FR1 n66	Ant 3	100	16.5	16.5	27.5	19.5	23.5
FR1 n66_Other PA	Ant 3	100	17.0	17.0	27.7	20.0	24.0
FR1 n66	Ant 2	100	19.0	19.0	21.0	21.0	24.0
FR1 n66_Other PA	Ant 2	100	17.5	17.5	19.5	19.5	22.5
FR1 n66	Ant 5	100	29.4	22.0	27.0	22.5	23.5
FR1 n66_Other PA	Ant 5	100	30.5	22.5	27.8	23.0	24.0
FR1 n66	Ant 4	100	23.6	21.5	32.7	21.5	22.0
FR1 n66_Other PA	Ant 4	100	24.2	22.5	35.2	22.5	23.0
FR1 n7	Ant 3	100	15.7	15.7	26.9	19.7	24.2
FR1 n7	Ant 2	100	16.5	16.5	19.5	19.5	25.0
FR1 n7	Ant 5	100	27.9	19.2	27.0	19.2	24.2
FR1 n7	Ant 4	100	17.0	17.0	27.1	19.5	23.0
FR1 n38	Ant 3	100	16.2	16.2	26.2	20.7	24.2
FR1 n38	Ant 2	100	16.0	16.0	21.0	21.0	25.0
FR1 n38	Ant 5	100	28.1	19.7	26.6	19.7	24.2
FR1 n38	Ant 4	100	17.0	17.0	26.7	19.5	22.5
FR1 n41_PC3	Ant 3	100	15.5	15.5	26.5	19.5	23.0
FR1 n41_PC2**	Ant 3	50	15.5	15.5	26.4	19.5	23.0
FR1 n41_PC3	Ant 2	100	15.5	15.5	19.0	19.0	23.5
FR1 n41_PC2**	Ant 2	50	15.5	15.5	19.0	19.0	23.5
FR1 n41_PC3	Ant 5	100	28.1	18.5	25.8	18.5	22.5
FR1 n41_PC2**	Ant 5	50	27.7	18.5	25.9	18.5	22.5
FR1 n41_PC3	Ant 4	100	14.5	14.5	26.9	18.5	21.0
FR1 n41_PC2**	Ant 4	50	14.5	14.5	26.6	18.5	21.0
FR1 n48	Ant 6	100	13.3	13.3	28.6	16.8	23.3
FR1 n48	Ant 8	100	24.1	19.5	26.3	21.0	21.0
FR1 n48	Ant 7	100	13.0	13.0	15.5	15.5	22.0
FR1 n48	Ant 9	100	19.5	18.5	26.8	18.5	20.5



FR1 n77_PC3	Ant 6	100	14.5	14.5	27.3	15.5	22.5
FR1 n77_PC2**	Ant 6	50	14.5	14.5	26.4	15.5	22.5
FR1 n77_PC3	Ant 8	100	23.5	18.0	24.7	18.0	21.0
FR1 n77_PC2**	Ant 8	50	23.8	18.0	23.9	18.0	21.0
FR1 n77_PC3	Ant 7	100	13.0	13.0	15.5	15.5	21.5
FR1 n77_PC2**	Ant 7	50	13.0	13.0	15.5	15.5	21.5
FR1 n77_PC3	Ant 9	100	17.0	15.0	19.5	15.5	20.5
FR1 n77_PC2**	Ant 9	50	17.0	15.0	19.5	15.5	20.5
FR1 n78_PC3	Ant 6	100	14.5	14.5	27.7	16.5	23.5
FR1 n78_PC2**	Ant 6	50	14.5	14.5	27.1	16.5	23.5
FR1 n78_PC3	Ant 8	100	23.5	18.0	24.6	18.0	22.0
FR1 n78_PC2**	Ant 8	50	23.3	18.0	23.8	18.0	22.0
FR1 n78_PC3	Ant 7	100	14.0	14.0	16.0	16.0	23.0
FR1 n78_PC2**	Ant 7	50	14.0	14.0	16.0	16.0	23.0
FR1 n78_PC3	Ant 9	100	17.0	17.0	25.9	19.0	21.5
FR1 n78_PC2**	Ant 9	50	17.0	17.0	25.2	19.0	21.5